MLAB 1167 – Practicum I Immunohematology
Sophomore
CRN 27531, 27537- Fall 2012
Practicum Rotation Site
Coleman College
Fall Hours: 15 lab/7 weeks/Monday-Wednesday-Friday 7:00 am – 2:30 pm
Credit: 1 Hour
160 Contact Hours
Type of Instruction: Practicum experience

Administrative Notes
Clinical Coordinators
Theresa Spain M.Ed., MT(ASCP)CLS(NCA)
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Office Hours
Monday-Friday 8:30am - 5:00pm

Course Schedule

Course Description
Practical, general workplace training supported by an individualized learning plan that is
developed by the employer, college, and student. The college and the employer develop
and document an individualized plan for the student. The plan relates the workplace
training and experiences to the student’s general and technical course of study. The
guided external experiences are unpaid and course may be repeated if topics and learning
outcomes vary.

Course Prerequisite
Department Approval and MLAB 1235, 2431

Course Goals
MLAB 1167 is designed to reinforce the student’s knowledge in blood and body fluids, to aid in diagnosis and management of patient health. This course is designed toward terminal vocational training as an MLT. Emphasis is placed on thorough knowledge of blood bank. Emphasis will be placed on development of manipulative skills, performing quality control, performing preventive maintenance, infection control, and interpretation of patients results in the above mentioned areas. Students will perform laboratory procedures in assigned department of clinical laboratory under the general supervision of clinical instructor.

Program Learning Outcomes:
1. Safely apply techniques according to standard operating procedures in the collection and analysis of biological samples.
2. Demonstrate the cognitive theory necessary to pass the national certification exam and be a successful Medical Laboratory Technician.
3. Integrate ethical and professional behavior in the clinical laboratory setting.
4. Use problem solving skills to integrate laboratory data for patient results.

Course Student Learning Outcomes
1. Apply principles of safety, quality assurance, and quality control.
2. Apply the cognitive theories of Immunohematology and Immunology to the practical setting.
3. Perform practical laboratory work skills.
4. Demonstrate ethical and professional behavior.

Learning Objectives
1.1 Demonstrate safe laboratory practices at all times.
1.2 Review the cognitive theories of Immunohematology and Immunology and transfer the information to correlate with the practices of the clinical site.
2.1 Observe the operation of clinical site equipment and demonstrate the ability to operate the equipment independently.
2.2 Perform quality control and all clinical site procedures and practices.
3.1 Illustrate ethical and professional behavior by adhering to attendance polices, dress codes, and general rules and regulations.
3.2 Demonstrate respect and appropriate interpersonal skills with all health care professionals in the health care setting.

Cognitive Objectives: It is the responsibility of the student to demonstrate knowledge of the following by scoring 75% or better on a prerotation exam given by HCC instructor:
1. Describe specimen collection, handling, storage, preparation, biochemical theory, principles of methods, disease manifestation, comprehensive clinical correlations and how to resolve problems of unexpected test results for the following tests.
   - Random donor platelets
   - Single donor platelets
   - Packed Red Blood Cells
   - Leukocyte-Poor Red Cells
Washed Red Blood Cells  
Frozen/thawed/deglycerolized Red Blood Cells  
Gamma-irradiated Red Blood Cells  
Fresh frozen plasma  
Cryoprecipitate  
Granulocyte concentrate  
Rh(D) immune globulin  
Autologous Donation  

2. Describe specimen collection, labeling, storage & preparation, immunologic genetic theory, principles of methods including recognition and resolution of common problems, disease manifestation/clinical correlation and differentiates/resolves technical, instrument, physiologic causes of problems or unexpected test results for the following:
   ABO Blood Typing  
   Antibody Identification  
   Rh Blood Grouping  
   Major Crossmatch  
   Antibody Screen  
   Antibody Panel  
   Elution test  
   Absorption test  

3. Describe specimen collection, labeling, storage & preparation, immunologic genetic theory, principles of methods including recognition and resolution of common problems and disease manifestation/clinical correlation for the following:
   Lewis Blood Group System  
   MNSs Blood Group System  
   P Blood Group System  
   Ii Blood Group System  
   Kell Blood Group System  
   Duffy Blood Group System  
   Kidd Blood Group System  
   Lutheran Blood Group System  
   Antibody Removal by Adsorption  
   Prewarming Technique  
   Cold Antibody Workup  
   Enzyme Treatment  
   Antibody Enhancement  
   Antibody Removal by ZZAP  
   Antibody Titration  

4. Describe essential components, principles of operation, preventive maintenance, recognize unexpected test results, takes corrective action or
refers, and differentiates/resolves technical, instrument, physiologic causes of problems or unexpected test results in:
  Centrifuges
  Heat Blocks
  Cell Washers.
  Gel Technology Systems

Psychomotor
Demonstrate competent psychomotor skills as determined by the instructor.

During clinical rotation, the student should:
  1. Verify identifications of samples (blood, urine, etc.) by comparing name, room number, date, hospital number, computer number with information on request.
  2. After observing routine task, perform task within time limit and standard of performance according to verbal instructions provided by the clinical instructors.
  3. Display a professional attitude toward patients and colleagues.
  4. Demonstrate interpersonal communication skills with patients, laboratory personnel, other health professionals and with the public.
  5. Prepare and mail samples to reference laboratories with appropriate forms.
  6. Experience the pace, stress and responsibility of performing tests in the clinical setting.

Terminal Performance Objectives: It is the responsibility of the student to:
1. Demonstrate a willingness to prepare for the role of a Clinical Laboratory Technician by:
   a. arriving at clinical affiliate at the assigned time
   b. observing safety rules and regulations
   c. keeping records
      1) legibly record results
      2) record results exactly as determined
   d. cooperate with the instructor to maintain laboratory and equipment in good condition
   e. observe clinical affiliate rules and regulations
   f. adhere to HCC dress code

2. Demonstrate the ability to perform laboratory tests by:
   a. following written and verbal instructions
   b. demonstrate increasing dexterity in the performance of procedures
   c. demonstrate progressive accuracy, precision and speed
   d. obtain results within the limits set for each test

3. Demonstrate a knowledge of theoretical concepts involved in the tests performed in the laboratory by:
   a. recognizing results which do not correlate and reporting them to the instructor
   b. associating unusual test results with the condition or disease which might be indicated.
Scans, Core Curriculum Competencies
Apply principles of safety, quality assurance, and quality control.
Foundation Skills – Thinking –Decision Making
Foundation Skills – Thinking –Creative
Foundation Skills – Thinking –Problem Solving
Identify the cognitive theories of Immunology and Immunohematology.
Foundation Skills – Thinking –Creative
Perform Laboratory work skills.
Workplace Competencies – Technology –Applies Technology to Task
Workplace Competencies – Technology –Maintains & Troubleshoots
Demonstrate ethical and professional behavior.
Workplace Competencies – Interpersonal –Participates as Team Member
Workplace Competencies – Interpersonal –Negotiates to Arrive at a Decision
Workplace Competencies – Interpersonal –Works with Cultural Diversity

Instructional Methods and Materials
The student will use all textbooks, notes, and packets that were received by the student.
Modern Blood Banking and Transfusion Practices, Denise Harmening, Davis

Course Calendar
The student rotation is determined by Coleman College and the Practicum Rotation Site.

Disability Notification
Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Services Office at their respective college at the beginning of each semester. Faculty are authorized to provide only the accommodations requested by the Disability Support Services Office. If you have any questions, please contact the Disability Counselor at your college or the District Disability Office at 713-718-5165. Contact Coleman College ADA counselor at 713-718-7082.

Academic Honesty
Plagiarism, cheating, and other forms of academic dishonesty are not only violations of the college system and the rules of this class, but are unethical and unprofessional. Students engaging in any form of academic dishonesty are subject to immediate dismissal from the program. You are expected to be familiar with the College's Policy on Academic Honesty, found in the catalog and student handbook. Students are responsible for conducting themselves with honor and integrity in fulfilling course requirements. Penalties and/or disciplinary proceedings may be initiated by College System officials against a student accused of scholastic dishonesty. “Scholastic dishonesty”: includes, but is not limited to, cheating on a test, plagiarism, and collusion.

Cheating on a test includes:
• Copying from another students’ test paper;
• Using materials not authorized by the person giving the test;
• Collaborating with another student during a test without authorization;
• Knowingly using, buying, selling, stealing, transporting, or soliciting in whole or part the contents of a test that has not been administered;
• Bribing another person to obtain a test that is to be administered.

Plagiarism means the appropriation of another’s work and the unacknowledged incorporation of that work in one’s own written work offered for credit.

Collusion mean the unauthorized collaboration with another person in preparing written work offered for credit. Possible punishments for academic dishonesty may include a grade of 0 or F in the particular assignment, failure in the course, and/or recommendation for probation or dismissal from the College System. (See the Student Handbook).

Student Attendance, Repeat Course Fee, Withdrawals
Regular attendance and being on time for clinical is an important part of your preparation for being a dependable employee. Each workplace has attendance and tardy guidelines, which employees must follow. The CLT program has designed the following guidelines in order to emphasize the importance of this aspect of employment. The guidelines will also assure continuity of instructions since both CLT faculty and clinical instructors believe that sporadic attendance interferes with the learning process. Tardiness and absenteeism places undue hardship on others therefore, must be kept to a minimum.

1. Time on duty refers to the time you are on duty in your assigned work area, properly dressed, and ready to work. All students are to record their time of arrival and departure each day. Attendance records will be checked by clinical trainer and program faculty weekly and must be signed by the clinical instructor and turned in at the end of the rotation.

2. If absent, students must notify the Clinical Instructor by 7:00 am. Be sure to note the person’s name and title. You must also call the CLT Program at 713-718-5518 by 8:00 am on the day of the absence. If the Program Director is not available, leave a message on the answering machine. Failure to notify the clinical instructor and program faculty will result in immediate dismissal from the program.

3. All absences will be made up double time. This means for every one day a student is absent, the student will make up two days. Three tardies will constitute one clinical absence.

4. If for any reason you leave the area to which you are assigned, it is your responsibility to be certain that the technologist in charge is informed.

5. PERMISSION TO BE ABSENT FROM PRACTICUM MUST BE OBTAINED FROM THE PROGRAM FACULTY PRIOR TO THE ABSENCE.

6. Under no circumstances will a student’s school schedule be altered to fit work schedules.

7. When HCC is closed for a holiday and this falls on a clinical rotation day, the student will not attend rotation except in order to make up missing days. The student is responsible for informing the rotation site of the impending HCC holiday.

In the event of bad weather, the student is advised to listen to local radio or television stations for information about school closure.
**Repeat Course Fee**
The State of Texas encourages students to complete college without having to repeat failed classes. To increase student success, students who repeat the same course more than twice, are required to pay extra tuition. The purpose of this extra tuition fee is to encourage students to pass their courses and to graduate. Effective fall 2006, HCC will charge a higher tuition rate to students registering the third or subsequent time for a course. If you are considering course withdrawal because you are not earning passing grades, confer with your instructor/counselor as early as possible about your study habits, reading and writing homework, test taking skills, attendance, course participation, and opportunities for tutoring or other assistance that might be available.

**Withdrawals**

Students are responsible for officially withdrawing from classes. The last day to drop with a “W” is 11/2/2012 – 4:30 pm deadline. Students who fail to withdraw from a class before this date will receive a grade of “F”. Before you withdraw from your course, please take the time to meet with the instructor to discuss why you feel it is necessary to do so. The instructor may be able to provide you with suggestions that would enable you to complete the course. Your success is very important.

To help you avoid having to drop/withdraw from any class, contact your professor regarding your academic performance. You may also want to contact your counselor to learn about helpful HCC resources (e.g. online tutoring, child care, financial aid, job placement, etc.). HCC has instituted an Early Alert process by which your professor may “alert” you and the counselors that you might fail a class because of excessive absences and/or poor academic performance.

- **Students should check HCC’s Academic Calendar by Term for drop/withdrawal dates and deadlines. Student may also check the course syllabus for the withdrawal date.**
- **If a student decides to drop or withdraw from a class upon careful review of other options, the student can drop online prior to the deadline through their HCC Student Service Center:**
  https://hccsaweb.hccs.edu:8080/psp/csprd/?cmd=login&languageCd=ENG

**Course Withdrawals-First Time Freshmen Students-Fall 2007 and Later**

Under Section 51.907 of the Texas Education Code “an institution of higher education may not permit a student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education.” Beginning in fall 2007, the Texas Legislature passed a law limiting first time entering freshmen to no more than SIX total course withdrawals throughout their educational career in obtaining a certificate and/or degree.

**HCC Student Services Information**

Early alert: HCC has instituted an Early Alert process by which your professor will “alert” you through written contact actions and through counselors of concerns that you might fail a class because of excessive absences and/or poor academic performance. It is
your responsibility to visit with your professor or a counselor to learn about what, if any, HCC interventions might be available to assist you – online tutoring, child care, financial aid, job placement, etc. – to stay in class and improve your academic performance.

**EGLS₃ – Evaluation for Greater Learning Student Survey System**
At Houston Community College, professors believe that thoughtful student feedback is necessary to improve teaching and learning. During a designated time, you, the students, will be asked to answer a short online survey of research-based questions related to instruction. The anonymous results of the survey will be made available to your professors and division chairs for continual improvement of instruction. Look for the survey as part of the Houston Community College Student System online near the end of the term.

**Responsibilities of Clinical Instructor**
1. Instruct by demonstrating clinical laboratory procedure.
2. Orient the student to hospital and departmental protocol and procedures and the location of manuals and reference materials.
3. Supervise the student as he/she gains practical experience performing clinical procedures and practicing skills by:
   a. observing student performance
   b. providing guidance and performance feedback as formative evaluation
4. Counsel students concerning non-compliance with hospital policies.
5. Evaluate the student’s performance in clinical by:
   a. verifying the student’s ability to function in a clinical laboratory by completing the following forms
      1) attendance record
      2) laboratory performance evaluation
      3) behavioral performance evaluation
      4) weekly progress report
   b. checking off the student as competent to perform all task performed at affiliate by allowing the student to report laboratory results under your supervision
6. Participate in program review process by recommending changes in curriculum, library holdings, textbooks, etc.
7. Have a laboratory representative attend semi-annual advisory committee meetings to plan instruction for the coming year and evaluate the past school year
8. Help recruit students at every opportunity

**Responsibilities of Student in Clinical Practicum**
1. Review clinical objectives prior to clinical rotation.
2. Report to clinical session on time.
3. Phone prior to start of clinical session when going to be absent or late.
4. Record hours in attendance in designated area.
5. Sign and date evaluations after having clinical instructors complete them.
6. Take the initiative to observe and practice procedures.
7. Take the initiative to seek clarification when needed from procedure manuals, reference material, and/or the clinical instructor.
8. Report laboratory results only after the clinical instructor has checked off the student as being competent to perform the procedure.
9. HIPAA is the Health Insurance Portability and Accountability Act (HIPAA), which involves patients’ rights to the security and protection of their identifiable patient health information. HITECH is the Health Information Technology for Economic and Clinical Health Act. Its main goal is to encourage the use of electronic health records (EHRs), which will strengthen Federal privacy and security laws in order to protect identifiable health information from misuse. It is understood by all students in clinical rotations that all identifiable patient health information is private and the security of protected health information will be maintained.

Program/Discipline Requirements
1. Abide by all lab safety rules.
2. Attendance is mandatory; any student with excessive absences will be dropped from the class.
3. Ethical and professional behavior is required at all times.
4. The lowest passing grade for all courses is 75%.

The Program prepares individuals, under the supervision of clinical laboratory scientists/medical technologists, to perform routine medical laboratory procedures and tests and to apply preset strategies to record and analyze data. Includes instruction in general laboratory procedures and skills; laboratory mathematics; medical computer applications; interpersonal and communications skills; and the basic principles of hematology, medical microbiology, Immunohematology, immunology, clinical chemistry, and urinalysis.

Course Requirements, Grading Scale, and Grading Criteria
In order to go to the practicum, the student must score 75% or better on a prerotation exam given by HCC instructor. The student must make 75% or higher on the Laboratory Performance grade and the Behavioral Evaluation grade. Laboratory Performance grade and the Behavioral Evaluation grade are given to the student by the rotation site. The student’s grade for this course will be determined by the following:

Laboratory Performance Evaluation 25%
Behavioral Evaluation 25%
Pre Rotation Exam 25%
Weekly Communication Log 25%
All Board of Certification Study Questions Complete with 100% accuracy.

The following grading scale is used for all MLAB courses:

90 - 100 = A
80 - 89 = B
75 - 79 = C
0 - 74 = F
The student is required to communicate with the HCC instructor via Blackboard email once a week while at the clinical site (7 weeks). The communication must be a minimum of 5 sentences each week. Failure to participate fully will result in points being deducted from the student’s course grade.

In Addition, the student must complete 160 clock hours at the clinical site.

Tutoring is available to all students for lectures and labs in a course. It is the student's responsibility to fill out a request form and/or contact the instructor to schedule tutoring. It is imperative that students request tutoring as soon as the need develops. Do not wait until the last minute to begin needed work. Tutoring for lecture or lab will be scheduled outside of regular class meetings. HCC Askonline tutoring program link is: www.hccs.askonline.net. This is a great program for help in your academic classes.

Activate your HCC student email account if you have not already done so. Go to http://webmail.hccs.edu after you have registered for classes. Username will be firstname.lastname with Password being DOB date of birth (mm/dd/yyyy for example 09/15/1985). If an error occurs, you may have number after your last name in the data system. To find your email username, press “students click here for help” link which will take you to a tutorial page. On second bullet line, press “click here” that opens a search engine to look up your email student identification. If you change your password, write down.

Student User ID: Your Eagle Online ID is now the same as your HCC User ID which is used for Online Registration. [For example: W0034567]. If you don't know your HCC User ID, you can contact the Coleman Computer Center for help. The Center is located on the first floor.

Your default Eagle Online password at the beginning of the term is: "distance"; this is all lower case without the quote marks. You will be required to change your password when you first log in and should make this password something that will be remembered easily. If a student forgets their password for Eagle Online, they must get help from the Computer Center on the first floor; the instructor does not know the password.

Please log on to Eagle Online at home computer to make sure that you have access there. Turn off the “pop-up blocker” and click Firefox. Firefox is the optimal browser for all your Eagle Online courses. You can also use Microsoft Explorer. (Safari will not work.). A free Firefox download is located under Start Here in Eagle Online. Eagle Online E-mail is encouraged and is a good aid for asking questions both of the instructor and other students in the class. Do not hesitate to use it.

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